Speedrooter 91™
Operating Instructions

For 3” through 10”
(75mm—250mm)

Your Speedrooter 91 is designed to give you years of trouble-free, profitable service. However, no machine is better than its operator.

Read, understand and follow all safety warnings and instructions provided with the product. Failure to follow the warnings and instructions may result in electric shock and/or serious injury. Save all warnings and instructions for future reference.

SAVE THESE INSTRUCTIONS!

General
PIPE CLEANERS

GENERAL SAFETY RULES

WARNING
Read and understand operator's manual before using this machine.
Failure to follow operating instructions could result in death or serious injury.

WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury. Replacement manuals are available upon request at no charge, or may be downloaded from our website, www.drainbrain.com. Instructional videos are available for download on our website, and may be ordered. If you have any questions or problems, please call General's customer service department at 412-771-6300.

SAVE THESE INSTRUCTIONS!

These instructions are intended to familiarize all personnel with the safe operation and maintenance procedures for the Speedrooter 91.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

WARNING

WARINING indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazard with a low level of risk which, if not avoided, will result in minor or moderate injury.

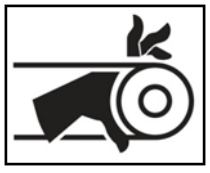
WARNING

Electric shock resulting in death can occur if you plug this machine into an improperly wired outlet. If the ground wire is electrified, you can be electrocuted by just touching the machine, even when the power switch is off. A ground fault circuit interrupter will not protect you in this situation. Use a UL approved tester to determine if the outlet is safe.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust of fumes.

Only wear leather gloves. Never use any other type of glove, such as cloth, rubber, or coated gloves. Never grasp a rotating cable with a rag. These items could become wrapped around the cable and cause serious injury.

Always wear safety glasses and rubber soled, non-slip shoes. Use of this safety equipment may prevent serious injury.



Never operate machine with belt guard removed. Fingers can get caught between belt and pulley.

Do not overstress cables. Overstressing cables may cause twisting, kinking, or breaking of the cable and may result in serious injury.

GENERAL SAFETY RULES

Work Area

1. **Keep work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

Electrical Safety

1. **Grounded tools must be plugged into an outlet, properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
2. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
3. **Do not expose power tools to rain or wet conditions**. Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord**. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
5. **When operating a power tool outside use an outdoor extension cord marked "W-A" or "W" .** These cords are rated for outdoor use and reduce the risk of electric shock.
6. **Test the Ground Fault Circuit Interrupter (GFCI) provided with the power cord to insure it is operating correctly before operating machine.** Machine must have a properly functioning ground fault circuit interrupter on the power cord. GFCI reduces the risk of electric shock.
7. **Only use proper three-wire extension cords in good condition which have three-prong grounding plugs and three-pole receptacles which accept the tool's plug.** Use of damaged, inferior, or other extension cords will not ground the tool. Increases the risk of electric shock and bodily injury or death.
8. **Extension cords are not recommended unless they are plugged into a Ground Fault Circuit Interrupter (GFCI)** found in circuit boxes or outlet receptacles. The GFCI on the machine power cord will not prevent electric shock from the extension cords.
9. **Keep all electric connections dry and off the ground**. Reduces the risk of electric shock.
10. **DO NOT touch plugs or tools with wet hands.** Reduces the risk of electric shock.

Personal Safety

1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **Avoid accidental starting. Be sure switch is off before plugging in.** Plugging in tools that have the switch on invites accidents.
4. **Remove adjusting keys or switches before turning the tool on.** A wrench or key that is left attached to a rotating part of the tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
6. **Use safety equipment. Always wear safety glasses and rubber soled, non-slip shoes**. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

1. **Use clamps or other practical way to secure and support the workpiece to a stable platform. Do not force tool**. Holding the work by hand or against your body is unstable and may lead to loss of control.
2. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
3. **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
4. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventative safety measures reduce the risk of starting the tool accidentally.
5. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **Maintain tools with care.** Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
7. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation**. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

8. **Only use accessories that are recommended by the manufacturer for your model**. Accessories that may be suitable for one tool may become hazardous when used on another tool.

Service

1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified repair personnel could result in injury.
2. **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES

1. **Only wear leather gloves**. Never use any other type of glove, such as cloth, rubber, or coated gloves. Never grasp a rotating cable with a rag. These items could become wrapped around the cable and cause serious injury.
2. **Never operate machine with belt guard removed**. Fingers can get caught between belt and pulley.
3. **Do not overstress cables**. Keep leather-gloved hand on the cable for control when machine is running. Overstressing cables because of an obstruction may cause twisting, kinking, or breaking of the cable and may result in serious injury.
4. **Place the machine at a distance not greater than two feet from the opening**. Greater distances can result in cable twisting or kinking.
5. **Machine is designed for ONE-PERSON operation.** Operator must control foot switch and cable.
6. **Do not operate machine in reverse (REV).** Operating machine in reverse can result in cable damage and is used only to back cutting tool out of an obstruction.
7. **Keep hands away from rotating drum.** Do not reach into drum unless machine is unplugged. Hand may be caught in the moving parts resulting in serious injury.
8. **Be careful when cleaning drains where cleaning chemicals have been used.** Avoid direct contact with skin and eyes. Drain cleaning chemicals can cause serious burns as well as damage the cable.
9. **Do not operate machine if operator or machine is standing in water**. Will increase risk of electrical shock.
10. **Wear safety glasses and rubber soled, non-slip shoes.** Use of this safety equipment may prevent serious injury.
11. **Before starting each job, check that the cable in the drum is not broken or kinked, by pulling the cable out and checking for wear or breakage**. Always replace worn out (kinked or broken) cables with genuine GENERAL replacement cables.
12. **Only use this tool in the application for which it was designed. Follow the instructions on the proper use of the machine.** Other uses or modifying the drain cleaner for other applications may increase risk of injury.

Ground Fault Circuit Interrupter (GFCI)

Your machine is equipped with a ground fault circuit interrupter, which protects you against shock if a short circuit should occur. Check that receptacle is properly grounded. Test the GFCI before each use.

1. Plug into 120-volt receptacle.
2. Push test button. Indicator light will go out and power to machine should cut off.
3. If light does not go out when test button is pushed, equipment should not be used until proper repairs can be made.
4. To restore power after test, push reset button. With the reset button depressed, if the machine doesn't start, stops while running, or if the operator experiences a mild shock, **do not use the machine!** Tag the machine out of service and take it to a motor repair center or return it to the factory for repairs.

⚠ THE SECTION OF CORD BETWEEN THE WALL PLUG AND THE GFCI IS NOT IN THE PROTECTED CIRCUIT.

FEATURES

Speedrooter 91 shown (Right) with Cable Guide Tube (Cat. # S91-GT)

Cable Application Chart (Table 1)

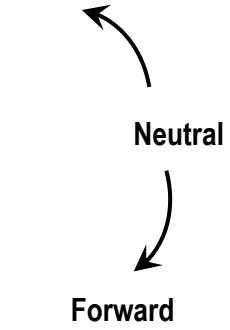
Cable Size	Pipe Size	Typical Applications
3/4" (Large Drum)	4" to 10"	Large Drains, Long Runs, Roots
5/8" (Large Drum)	3" to 6"	Floor Drains, Roots
1/2" (Small Drum)	2" to 4"	Stacks & Small Drains (No Roots)

Cutter Application Chart (Table 2)

Cutter	Cat. #	Typical Applications
Cutters for 1/2" Cables		
Arrow Head	AH	Starting Tool, ideal for cutting and scraping.
1-1/2" U-Cutter	1-1/2UC	Finishing tool, works well in grease stoppages.
Small Retrieving Tool	RTR-1	To remove or retrieve loose objects.
13" Flexible Leader	LE-1	Tool for negotiating around difficult bends.
Cutters for 5/8" and 3/4" Cables		
Spear Head	SHD	Starting Drill—gets water flowing.
2" U-Cutter	2UC	For Cutting and Scraping
3" & 4" Side Cutter Blades	3SCB & 4SCB	For Cutting—Scraping walls of pipe.
3" Heavy Duty Saw Blade	3HDB	For Cutting Roots
4" Rotary Saw Blade	4RSB	For Cutting Roots
Large Retrieving Tool	RTR-2	For removing loose objects or broken cables.
26" Flexible Leader	LE-3	Helps cable get through tight traps and bends.

Note: There are no fixed rules for what cutter to use. If one tool doesn't take care of a stoppage, simply try another.

POWER CABLE FEED



OPERATION

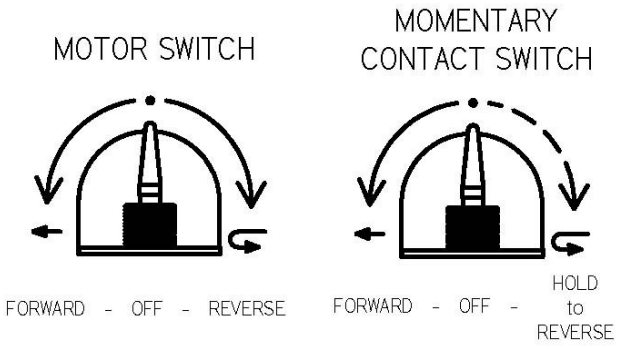
SET-UP

MAKE SURE THE MOTOR SWITCH IS IN THE 'OFF' POSITION!

1. Place machine at a distance not greater than two feet from the drain opening. Be sure the Speedrooter Guide Tube (S91-GT) is in place. If you can't get the machine this close to the drain opening, run the cable through the optional Guide Tube Extension (GTE) or a metal guide tube to prevent cable whipping.
2. Position the air foot pedal for easy accessibility. The machine is designed for one-person operation. Be sure you can quickly remove your foot from the pedal in an emergency.
3. Lock the wheels by lifting the brake handle located next to the left wheel and pressing it into the clip.
4. Be sure the motor switch is in the **off** position.
5. Make sure the Power Cable Feed is set to match the cable size you have selected. If you're using 3/4" or 5/8" cables, the feed should be assembled with the raised side of the lower two caps outward. If you are using 1/2" cables, the feed should be assembled with the raised side of the caps inward.
6. Select the proper cutting tool (See Cutter Application Chart—Table 2). A good tool to start with is the Spearhead or 2" U-Cutter. If you are having difficulty getting around a P-Trap or close bend, try the flexible leader. After the line has been opened, follow with larger blades, which scrape the inside edges of the pipe, assuring a real cleaning job.
7. Insert the cutter into the female connector at the end of the cable and tighten the connecting screw and lock washer **firmly** in place.

OPERATION

1. Before stepping on the foot pedal, pull cable from the drum and slide it into the drain as far as it will go.
2. Tighten the knob at top of the Power Cable Feed so that the feed roller presses against the cable. Be sure not to over tighten since this could cause excess cable wear.
3. The feed lever controls the feeding rate and direction of the cable. Move the lever down to feed cable out of drum. The further the lever is moved downward, the faster the cable will feed out. Move lever up to retract cable into drum. When the lever is in the middle (neutral) position, cable will spin in place.
4. Move the motor switch to the **forward** position.
5. With a gloved hand on the Guide Tube, depress the air foot pedal to start machine. Feed the cable into the line and against the obstruction with a firm, even pressure. Adjust the feeding rate to the resistance met. Do not force the cable - let the cutter do the work. The job won't go any faster and you could damage the cable.
6. Don't leave too much slack in the cable since this will cause whipping. If the cable starts to bend or build up too much twist, release pressure on the foot pedal and rotate the drum in the opposite direction to relieve the twist on the cable. Push any excess cable back into the drum and then continue.
7. If you're having trouble getting around tight bends, try putting the machine in reverse while applying steady pressure.



   Don't do this for more than a few seconds at a time since this could cause tangling in the drum or kinking.
8. If you still can't get around the bend, you're probably using too large a cable. Switch to a 5/8" or 1/2" diameter cable. (See Cable Application Chart—Table 1)
9. When the cable reaches the stoppage, allow the cable to progress forward slowly, chewing into the stoppage as it goes. This slow forward movement will reduce stress on the cable while doing a more thorough cleaning job. A back and forth action often works best.

Hint: It's often helpful to have a small stream of water running in the line to wash the cuttings away while the machine is in operation and after.

10. Be careful not to let the cutter get caught in the stoppage as you work through it. This can cause kinking and breaking of the cable. When you feel the cable starting to twist in your hands, stop the machine and retract the cable. This will free the cutter from the obstruction. Then allow the cable to move forward slowly into the stoppage. Remember, no cutting takes place when the blades stop turning.
11. After the line has been opened, retract the cable by moving the feed lever up. Make sure the motor switch is in the **forward** position. This is important to prevent the cable from tangling in the drum or in the line.
12. When the cutter is near the drain opening, take your foot off the pedal to stop drum rotation. Never retract the cutter from drain while cable is rotating. The cable could whip and cause serious injury.

DO NOT USE REVERSE TO PULL THE CABLE OUT OF THE DRAIN. RUNNING MACHINE IN REVERSE CAN CAUSE THE CABLE TO TANGLE IN THE DRUM.

SPECIAL OPERATIONS

IF CABLE GETS CAUGHT IN LINE

The motor can be reversed to free the cable if it gets caught in line. (Note: if using Power Cable Feed, putting motor in reverse will cause the feed control lever to operate opposite of normal.)

1. Move motor switch to the reverse position.
2. Depress the foot pedal while pulling on the cable.
3. After cable is loose, move switch back into forward position.

DO NOT RUN MOTOR IN REVERSE FOR MORE THAN A FEW SECONDS AT A TIME SINCE THIS COULD CAUSE THE CABLE TO KINK OR TANGLE IN THE DRUM.

IF CABLE TANGLES IN DRUM

This is caused by using too much pressure when feeding the cable or feeding the cable into the line while running the machine in reverse. To untangle the cable, rotate the drum in opposite direction. This will usually get the cable to lie in the drum properly.

If the cable has become badly tangled, which shouldn't occur if used properly, it can be straightened out by removing the distributor tube from the machine. To do this:

DISCONNECT MACHINE FROM POWER SOURCE BEFORE UNTANGLING CABLES

1. Remove drum from machine frame. (See TO REMOVE DRUM.)
2. Set drum down so that distributor tube is pointing up. Unscrew knob at the back of distributor tube. (See Figure 1.) This unlocks the distributor tube from the drum shaft. Be careful not to lose the thrust bearing and race attached to the knob.

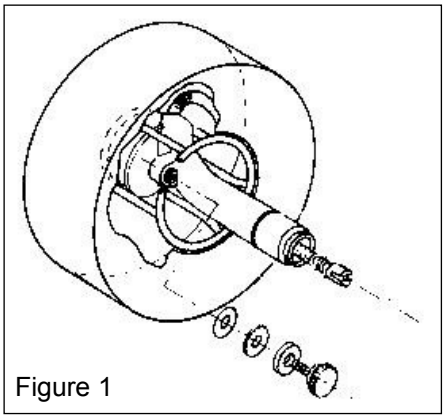


Figure 1

3. Slide the distributor tube off the shaft and out of the drum. (See Figure 2.)

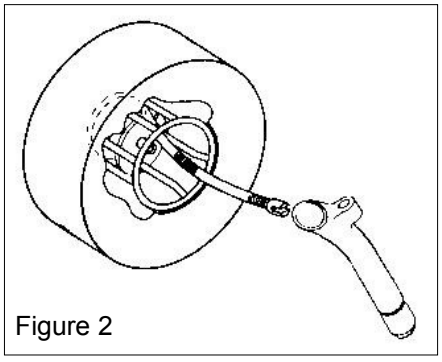


Figure 2

The tension of the cable will force the tube to the side of the drum as you pull it out; so keep some pressure against the cable as you pull the tube out. After tube is out, pull out the inner drum cage. (See Figure 3.) Pull out enough cable to eliminate the tangle.

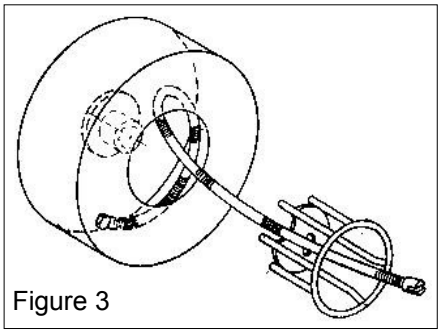


Figure 3

4. After the cable is straightened out, slide the inner drum cage back into place. (Figure 3.) Then slide distributor tube back so that curved section is adjacent to crescent-shaped notch in inner drum cage and back of distributor tube fits over shaft in center of drum. (Figure 2.) Keep pressing down on distributor tube as you tighten knob **with** thrust bearing and races. (Figure 1.) This holds tube into place. You can now put the drum back on the machine.

TO REMOVE DRUM

DISCONNECT MACHINE FROM POWER SOURCE BEFORE REMOVING DRUM FROM MACHINE!

1. Remove belt guard by loosening the knob above the motor.
2. Press down on motor and slide V-Belt off of drum. Then rotate motor to the side.
3. Remove the cutter and connecting screw from the cable end.
4. Unscrew knob behind the front post and pull Power Cable Feed off the machine.
5. Loosen the knob on front post cap (S91-120), then open cap.
6. Loosen knob on rear drum shaft clamp (S91-130), then open cap.
7. Lift drum clear of machine.

TO INSTALL DRUM

DISCONNECT MACHINE FROM POWER SOURCE BEFORE INSTALLING DRUM ON MACHINE!

1. Hang V-Belt from motor pulley. (64” belt for large drum, 57” for small.)
2. Place drum on the machine, positioning the shaft into rear drum clamp first. Rotate the drum until the hole in the shaft fits over the guide pin in the clamp.
3. Then put the distributor tube into the front post clamp.
4. Close front and rear clamps. Then tighten knobs.
5. Slip V-Belt under drum.

TO INSTALL CABLE IN DRUM

DISCONNECT MACHINE FROM POWER SOURCE BEFORE INSTALLING CABLE IN DRUM!

To install cable in the drum, simply connect the male end of the cable to the drum connecting cable, which is already attached to the drum. Then remove the drum V-Belt and turn the drum clockwise, while pushing cable

Note: The cable should lay in the drum in a clockwise direction.

MAINTENANCE

DISCONNECT MACHINE FROM POWER SOURCE BEFORE PERFORMING MAINTENANCE ON MACHINE!

To keep your machine operating smoothly, it is essential that all bearings and distributor tube bushings be lubricated. Oiling moving parts is particularly important where machine comes in contact with sand, grit and other abrasive material.

CABLE MAINTENENCE

To get maximum service from your cables, be sure that they are clean and well oiled. This not only provides running lubrication but greatly extends the life of the cables as well. Some users periodically pour oil directly into the drum. Then, as the drum turns, the cables get complete lubrication. Our SNAKE OIL is ideally suited for this purpose, since it not only lubricates the cables, it deodorizes them as well.

FEED MAINTENANCE

Keep feed free of excessive soil and grit. It is recommended that the feed be flushed with fresh water followed by a light oiling of the moving parts. No disassembly is normally required. Failure to feed can usually be traced to the following possibilities:

DIRT ACCUMULATION

Over time, dirt can harden enough to stop roller rotation. Flushing with water followed by liberal oiling can usually restore function. If disassembly is required, proceed as follows:

1. Remove the feed tension knob, springs and spring plunger. Note the positioning of these parts to ease re-assembly. The top roller can now be removed.
2. Remove the snap rings and thrust washers from the bottom housing cylinders. The bottom rollers can now be removed.
3. Re-assembly is done in reverse order.

DAMAGED ROLLER

Excessive use may wear a roller to the point of failure. It is recommended that all three rollers be replaced at the same time (Cat # PO-703).

TANGLED CABLE

If a cable loops over itself in the drum, it will not feed properly. Remove and reload the cable to restore function. If the cable kinks, it is evidence of abuse and results from the use of too much pressure or use of the wrong size cable for the line. Do not force the cable — let the cutter do the work.

FOR MORE INFORMATION CONTACT THE DRAIN BRAINS® AT:

General PIPE CLEANERS

412-771-6300 or 800-245-6200

www.drainbrain.com

info@drainbrain.com

TROUBLE SHOOTING GUIDE (Table 3)		
Problem	**Probable Cause**	**Solution**
Cable kinks or breaks.	Operator forcing the cable.	Do not force the cable. Let the cutter do the work.
	Too much slack between machine and drain.	Allow no more than two feet between machine and drain.
	Cable used in wrong size drain line.	A cable that is too large or too small in diameter for a line is more likely to kink. (Consult Table 1—Cable Applications.)
	Cable exposed to acid.	Clean and oil cables regularly.
Cable tangles in drum.	Operator forcing the cable.	Do not force the cable. Let the cutter do the work.
	Machine running in reverse.	Do not run the machine in reverse to retract the cable from the drain.
	Distributor tube frozen.	Lubricate distributor tube bushings.
Drum stops while foot pedal depressed.	Hole in pedal or hose.	Replace as required.
	Hole in diaphragm switch.	If no hole found in pedal or hose, replace diaphragm switch.
Drum turns in one direction but not other.	Reverse switch failure or momentary contact switch.	Replace switch. Note: Momentary contact switch must be held in position to use reverse.
Ground fault circuit interrupter trips and will not reset.	Damaged power cord or extension cord.	Replace cords.
	Short circuit in motor.	Take motor to authorized repair center.
	Faulty ground fault circuit interrupter.	Replace ground fault circuit interrupter.
Motor turns but drum does not.	Safety Slip Clutch (optional) engaged.	Do not force cable.
Failure to feed.	Cable tangled in drum.	Do not run machine in reverse. Use proper cable size. (Consult Cable Application Chart—Table 1).
	Feed misadjusted.	If feed tension knob is too loose the cable will slip. If it is too tight the feed rollers will wear prematurely.
	Feed roller frozen.	Clean and lubricate feed rollers regularly. Replace worn rollers.
	Worn cable.	When cable coils wear flat, cable should be replaced.

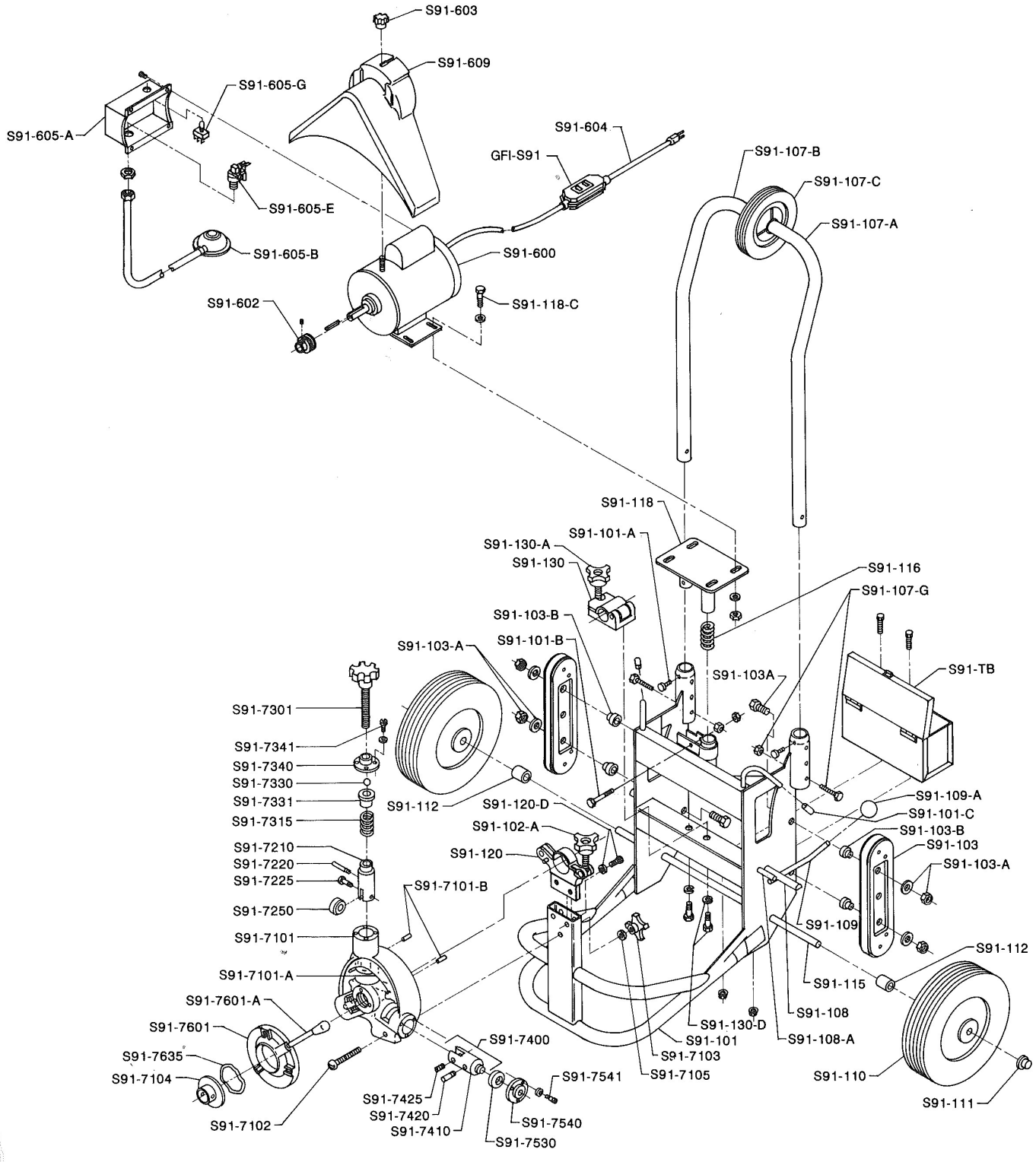
Speedrooter 91 Parts List

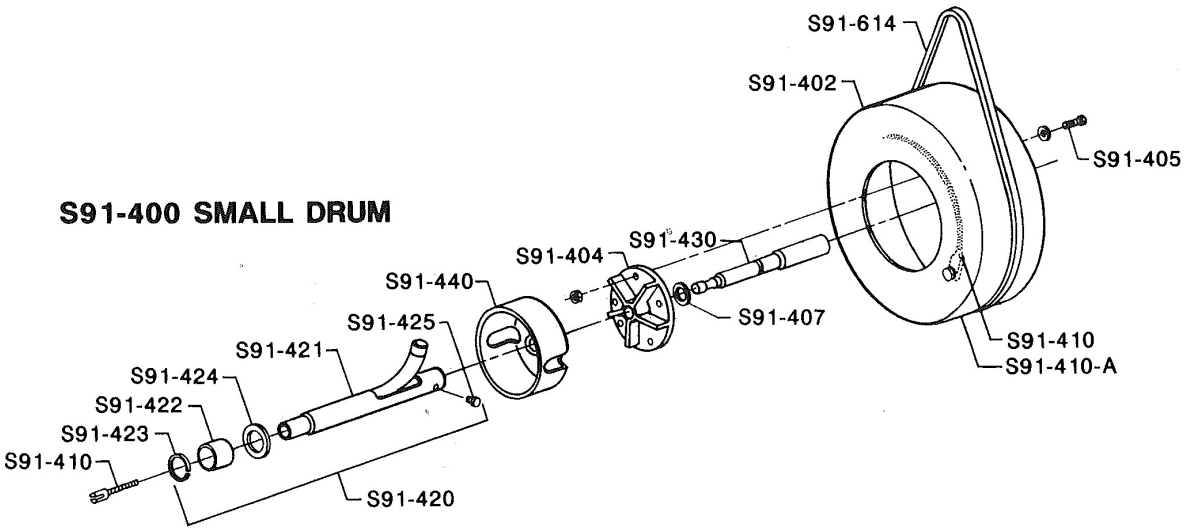
CAT. NO.	DESCRIPTION	CAT. NO.	DESCRIPTION
S91-100	Frame Complete	S91-425	Distributor Tube Retaining Bolt
S91-101	Frame Only with Axle	S91-430	Drum Shaft
S91-101-A	Handle Support Knob (2)	S91-440	Inner Drum Cage
S91-101-B	Motor Support Bolt, Nut, & Washer	S91-440-A	Bushing
S91-101-C	Cord Wrap Cap (2)	S91-450	Large Drum Complete with Shaft
S91-103	Stair Climber with Belt (1)		and Distributor Tube (18")
S91-103-A	Nuts, Bolts, & Washers (2)	S91-452	Drum Shell
S91-103-B	Spacers (2)	S91-454	Drum Hub Bearings (2)
S91-107	Plated Handle Assembly	S91-455	Bearing Spring
S91-107-A	Handle – Left	S91-460	Drum Connecting Cable
S91-107-B	Handle – Right		(for 5/8" and 3/4" cables)
S91-107-C	6" Handle Wheel	S91-460-A	Nut, Bolt, & Washer
S91-107-D	Axle for Handle Wheel	S91-470	Drum Distributor Tube Assembly
S91-107-E	Bushings (2)	S91-471	Distributor Tube Only
S91-107-F	Felt Washers (2)	S91-472	Bushing
S91-107-G	Bolts and Nuts (2)	S91-473	Retaining Ring
S91-107-H	Set Screws (2)	S91-474	Thrust Bearing Race
S91-108	Brake Rod	S91-475	Distributor Tube Retaining Knob
S91-108-A	Roll Pin		with Bearing Assembly
S91-109	Brake Rod Handle with Knob	S91-475-A	Bearing Assembly for Retaining Knob
S91-109-A	Knob for Brake Rod	S91-480	Drum Shaft
S91-109-B	Roll Pin	S91-481	Wear Washer
S91-109-C	Brake Rod Latch with Screws	S91-482	Spacer collar with Set Screw
S91-110	10" Wheel with Retaining Cap (1)	S91-490	Inner Drum Cage
S91-111	Wheel Retaining Cap (2)	S91-490-A	Bushing
S91-112	Wheel Spacer Washers (2)	S91-600	1/2 hp Motor Complete with Air Foot
S91-115	Axle		Switch, Reverse Switch, & GFCI
S91-116	Motor Support Spring	S91-600-3/4	3/4 hp Motor Complete with Air Foot
S91-118	Motor Support Platform		Switch, Reverse Switch, & GFCI
S91-118-C	Nuts, Bolts, & Washers (4)	S91-601	V-Belt (64")
S91-120	Front Bearing Assembly	S91-602	V-Belt Pulley
S91-120-A	Front Bearing Knob	S91-602-1	Slip Clutch (Optional)
S91-120-D	Bolts, Nuts & Washers (2)	S91-603	Knob for Mounting Stud
S91-130	Rear Drum Shaft Clamp	S91-604	20 ft. Power Cord with GFCI
S91-130-A	Drum Clamp Knob	S91-605	Air Foot Switch & Rev. Switch Assem.
S91-130-D	Mounting Bolts & Washers (2)	S91-605-A	Box Only with Cover & Screws
S91-400	Small Drum Complete with Shaft	S91-605-B	Foot Pedal and Hose
	and Distributor Tube (15")	S91-605-C	Cable Tie
S91-402	Drum Shell	S91-605-E	Power Switch Diaphragm
S91-404	Drum Hub with Bearings	S91-605-G	Reverse Switch – 3-Way
S91-404-A	Bushings (2)	S91-605-H	Rubber Boot (Rental)
S91-405	Nuts, Bolts, & Washers (5)	S91-605-J	Barbed Adapter
S91-407	Shaft Washer	S91-605-N	Strain Relief Nut
S91-410	Drum Connecting Cable (for 1/2" cables)	S91-609-1/2	Belt Guard (1/2 hp) with Slot
S91-410-A	Nut, Bolt, & Washer	S91-609-3/4	Belt Guard (3/4 hp) with Slot
S91-420	Small Drum Distributor Tube Assem.	S91-614	Small Drum V-Belt (57")
S91-421	Distributor Tube Only	S91-TB	Tool Box
S91-422	Bushing	S91-GT	Guide Tube for Speedrooter 91
S91-423	Retaining Ring	GTE	Guide Tube Extension
S91-424	Thrust Bearing Race	S91-DECAL	Set of Safety Decals
		S91-VIDEO	Instructional Video

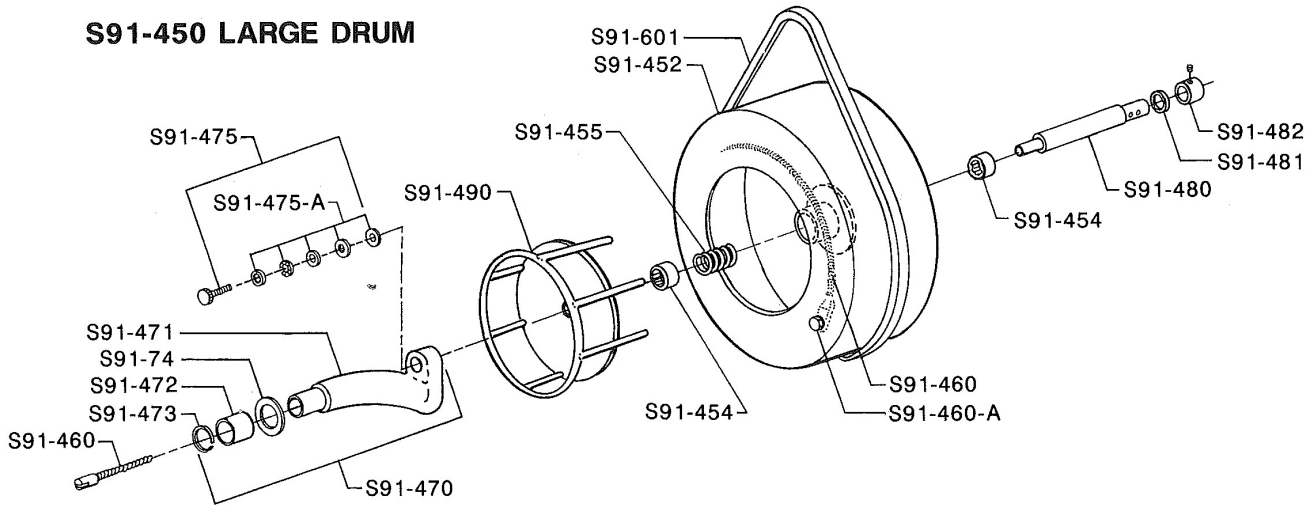
For Power Feed Parts List and Schematic Diagram please visit www.drainbrain.com.

SPEEDROOTER 91

SCHEMATIC DIAGRAM







General Wire Spring Co,
1101 Thompson Avenue
McKees Rocks, PA 15136
412-771-6300 ***www.drainbrain.com***

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SPEEDROOTER 91

Parts List and Diagrams

CATALOG NO.	DESCRIPTION
S91-100	Frame Complete
S91-101	Frame Only with Axle
S91-101-A	Handle Support Knob (2)
S91-101-B	Motor Support Bolt,Nut & Washer
S91-101-C	Cord Wrap Cap (2)
S91-103	Stair Climber with Belt (1)
S91-103-A	Nuts, Bolts & Washers (2)
S91-103-B	Spacers (2)
S91-107	Plated Handle Assembly
S91-107-A	Handle - Left
S91-107-B	Handle - Right
S91-107-C	6" Handle Wheel
S91-107-D	Axle for Handle Wheel
S91-107-E	Bushings (2)
S91-107-F	Felt Washers (2)
S91-107-G	Bolts and Nuts (2)
S91-107-H	Set Screws (2)
S91-108	Brake Rod
S91-108-A	Roll Pin
S91-109	Brake Rod Handle with Knob
S91-109-A	Knob for Brake Rod
S91-109-B	Roll Pin
S91-109-C	Brake Rod Latch with Screws
S91-110	10" Wheel with Retaining Cap (1)
S91-111	Wheel Retaining Cap (2)
S91-112	Wheel Spacer Washers (2)
S91-115	Axle
S91-116	Motor Support Spring
S91-118	Motor Support Platform
S90-118-C	Nuts, Bolts, and Washers (4)

CATALOG NO.	DESCRIPTION
S91-120	Front Bearing Assembly
S91-120-A	Front Bearing Knob
S91-120-D	Bolts, Nuts and Washers (2)
S91-130	Rear Drum Shaft Clamp
S91-130-A	Drum Clamp Knob
S91-130-D	Mounting Bolts and Washers (2)
S91-400	Small Drum Complete with Shaft and Distributor Tube (15")
S91-402	Drum Shell
S91-404	Drum Hub with Bearings
S91-404-A	Bushings (2)
S91-405	Nuts, Bolts & Washers (5)
S91-407	Shaft Washer
S91-410	Drum Connecting Cable (for 1/2" cables)
S91-410-A	Nut, Bolt, & Washer
S91-420	Small Drum Distributor Tube Assembly
S91-421	Distributor Tube Only
S91-422	Bushing
S91-423	Retaining Ring
S91-424	Thrust Bearing Race
S91-425	Distributor Tube Retaining Bolt
S91-430	Drum Shaft
S91-440	Inner Drum Cage
S91-440-A	Bushing

General Wire Spring Co.

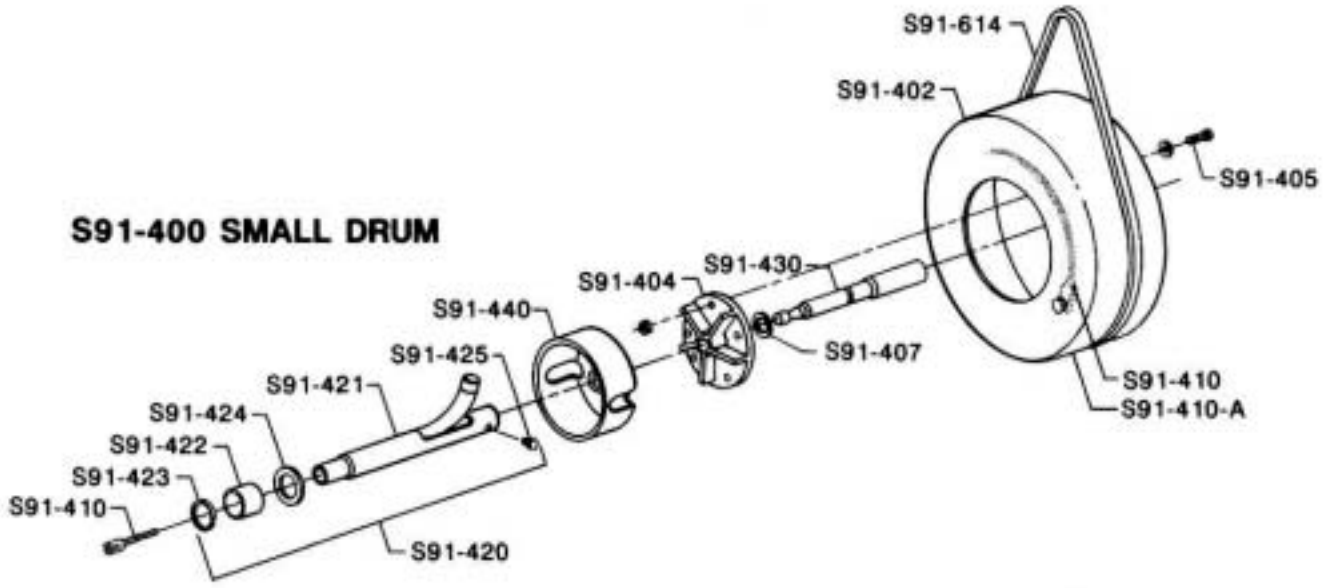
1101 Thompson Avenue 412/771-6300 McKees Rocks, PA 15136 U.S.A.

CAT. NO.	DESCRIPTION
S91-450	Large Drum Complete with Shaft & Distributor Tube (18")
S91-452	Drum Shell
S91-454	Drum Hub Bearings (2)
S91-455	Bearing Spring
S91-460	Drum Connecting Cable (for 5/8" and 3/4" cables)
S91-460-A	Nut, Bolt, & Washer
S91-470	Drum Distributor Tube Assembly
S91-471	Distributor Tube Only
S91-472	Bushing
S91-473	Retaining Ring
S91-474	Thrust Bearing Race
S91-475	Distributor Tube Retaining Knob with Bearing Assembly
S91-475-A	Bearing Assembly for Retaining Knob
S91-480	Drum Shaft
S91-481	Wear Washer
S91-482	Spacer Collar with Set Screw
S91-490	Inner Drum Cage
S91-490-A	Bushing
S91-600	1/2 hp Motor Comp. with Air Foot Switch, Reverse Switch, & GFI
S91-600-3/4	3/4 hp Motor Comp. with Air Foot Switch, Reverse Switch, & GFI
S91-601	V-Belt (64")
S91-602	V-Belt Pulley
S91-602-1	Slip Clutch (Optional)
S91-603	Knob for Mounting Stud
S91-604	20 ft. Power Cord with Ground Fault Interrupter
S91-605	Air Foot Switch and Reverse Switch Assembly
S91-605-A	Box Only with Cover & Screws
S91-605-B	Foot Pedal and Hose
S91-605-C	Cable Tie
S91-605-E	Power Switch Diaphragm
S91-605-G	Reverse Switch - 3-Way
S91-605-H	Rubber Boot (Rental)
S91-605-J	Barbed Adapter
S91-605-N	Strain Relief Nut
S91-609-1/2	Belt Guard (1/2 hp) with Slot
S91-609-3/4	Belt Guard (3/4 hp) with Slot
S91-614	Small Drum V-Belt (57")

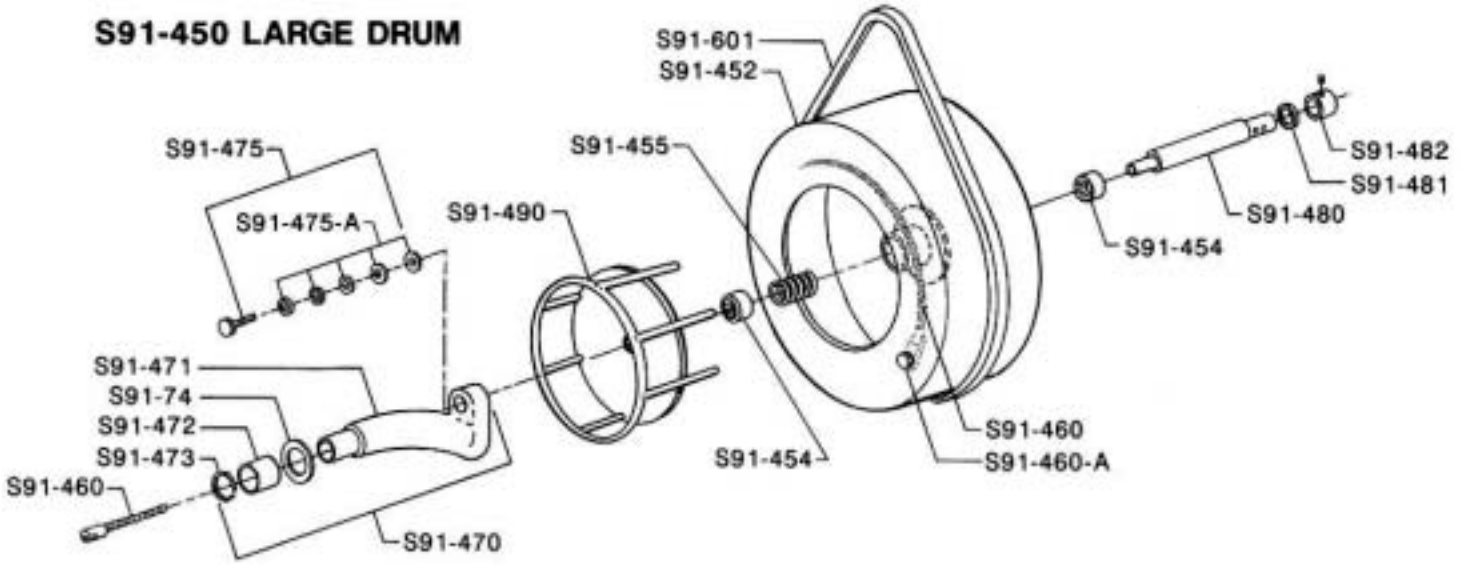
SPEEDROOTER 91 POWER FEED

S91-7000	Power Cable Feed Assembly
S91-7101	Feed Body
S91-7101-A	Lifting Spring
S91-7101-B	Guide Pins (2)
S91-7102	Mounting Stud
S91-7103	Mounting Knob
S91-7104	Spout and Retaining Cover
S91-7105	Steel Washer
S91-7200	Top Roller Assembly
S91-7210	Top Carrier Only
S91-7220	Swing Pin
S91-7225	Feed Roller Shaft
S91-7250	Feed Roller with Bearing
S91-7301	Feed Pressure Knob
S91-7301-A	Limiting Nut
S91-7315	Pressure Spring
S91-7330	Ball Bearing
S91-7331	Ball Bearing Holder
S91-7340	Top Cover
S91-7341	Cover Screws and Washers (3)
S91-7400	Bottom Roller Assembly
S91-7410	Bottom Carrier Only
S91-7420	Swing Pin
S91-7425	Bottom Roller Shaft
S91-7450	Bottom Roller with Bearing
S91-7530	Thrust Bearing
S91-7540	Cable Adjustment Plate
S91-7541	Plate Screws and Washers (3)
S91-7601	Feed Control Disc with Lever and Knob
S91-7601-A	Lever and Knob
S91-7635	Wave Washer
S91-7703	Set of Feed Rollers (3)
S91-TB	Tool Box
S91-GT	Guide Tube for Speedrooter 90
GTE	Guide Tube Extension
S91-DECAL	Set of Safety Decals

S91-400 SMALL DRUM

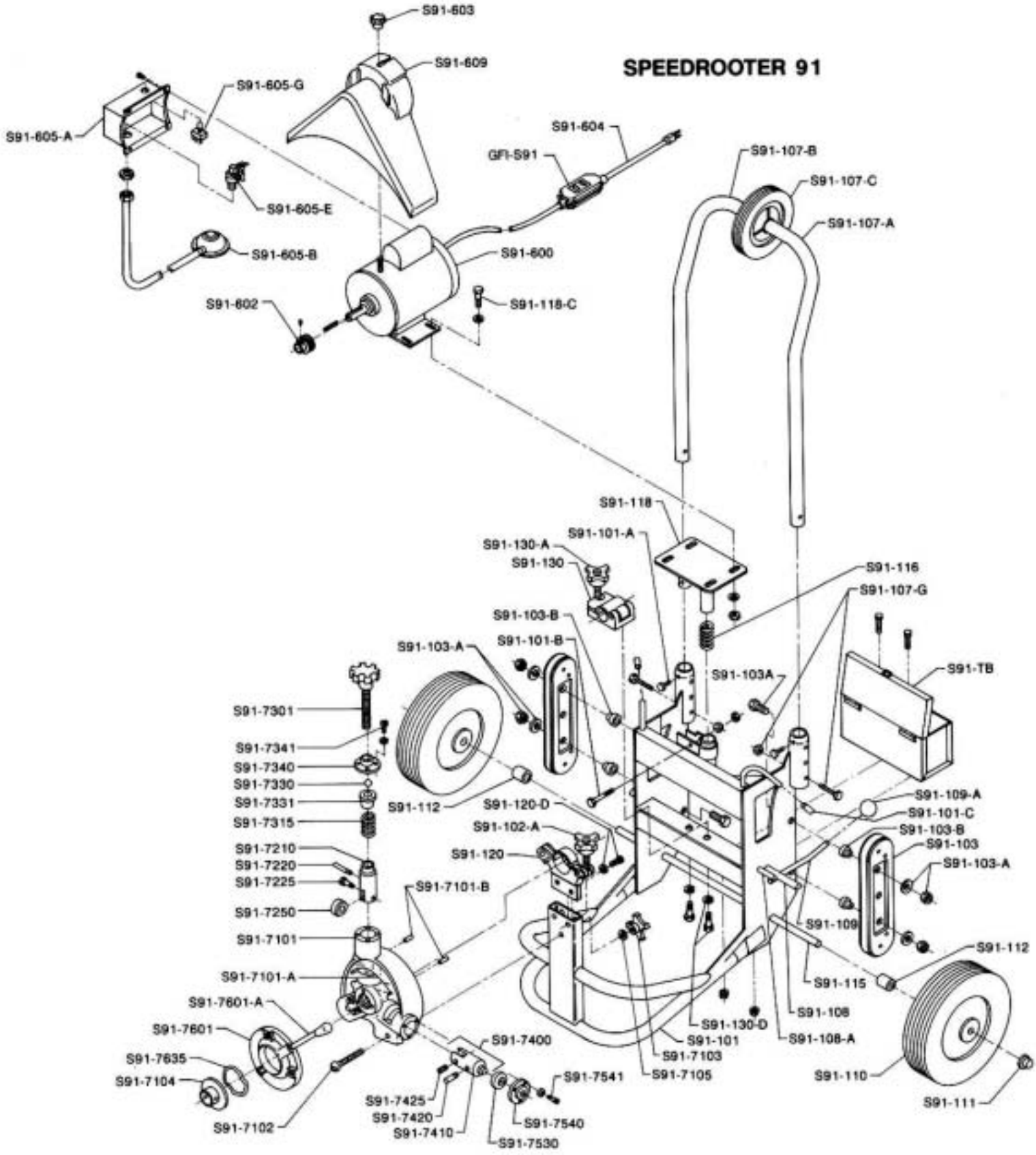


S91-450 LARGE DRUM



IMPORTANT: When ordering,

SPEEDROOTER 91
SCHEMATIC DIAGRAM



give Serial Number of Machine.